S.V. CIVIL ENGINEERING CONSULTANTS
An ISO 9001 2008 Certified Company

Job No.: SVCE/BBMP/VC/W.No.17/2016-17 Date: 04.02.2016

TEST REPORT

CLIENT	:	**Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
AGENCY	:	**M/S Vrushabhadri Construction,** Bangalore.
NAME OF THE WORK	:	Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	120 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	395 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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⇒ Any Query regarding the report must be reported reported within 30days from the date of testing.

For SV CIVIL ENGINEERING CONSULTANTS

Authorised Signator

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Job No.: SVCE/BBMP/VC/W.No.17/2016-17 Date : 15.02.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/S Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.

Date of Testing : 15.02.2016

Material : Sand Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	4.20	4.20	95.8	90-100
2.36	162	8.10	12.30	87.7	75-100
1.18	152	7.60	19.90	80.1	55-90
600 Micron	542	27.10	47.00	53.0	35-59
300 Micron	623	31.15	78.15	21.9	8-30
150 Micron	285	14.25	92.40	7.6	0-10

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Job No.: SVCE/BBMP/VC/W.No.17/2016-17 Date : 15.02.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/S Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.

Date of Testing : 15.02.2016

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	196	1.31	1.31	98.69	95-100
20	8325	55.50	56.81	43.19	30-70
10	3652	24.35	81.15	18.85	10-35
4.75	2452	16.35	97.50	2.50	0-5

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Job No.: SVCE/BBMP/VC/W.No.17/2016-17 Date : 15.02.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/S Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.

Date of Testing : 15.02.2016

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2756	55.1	58.9	41.1	25-55
4.75	1685	33.7	92.6	7.4	0-10

Note:

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Job No.: SVCE/BBMP/VC/W.No.17/2016-17 Date : 15.02.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/S Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.

Date of Testing : 15.02.2016

Material : Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	16	1.60	1.60	98.4	95-100
2.36	14	1.40	3.00	97.0	95-100
1.18	32	3.20	6.20	93.8	90-100
600 Micron	75	7.50	13.70	86.3	80-100
300 Micron	256	25.60	39.30	60.7	20-65
150 Micron	475	47.50	86.80	13.2	0-15

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Lab No.: SVCE/BBMP/VC/W.No.17/2016-17

Date : 15.02.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/S Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.

Date of Testing : 15.02.2016

Material : Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	17	1.70	1.70	98.3	90-100
1.18	63	6.30	8.00	92.0	70-100
600 Micron	85	8.50	16.50	83.5	40-100
300 Micron	256	25.60	42.10	57.9	5-.70
150 Micron	475	47.50	89.60	10.4	0-15

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Job No.: SVCE/BBMP/VC/W.No.17/2016-17

Date: 19.03.2016

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **M/S Vrushabhadri Construction,** Bangalore.
Name of the work : Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.
Sample ID : Cement Mortar
Size of cubes : 50mmx50mmx50mm
Cross Sectional Area : 2500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2016	19.03.2016	0.756	135.6	54.24
3	20.02.2016	19.03.2016	0.785	134.8	53.92
3	20.02.2016	19.03.2016	0.793	136.9	54.76

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Job No.: SVCE/BBMP/VC/W.No.17/2016-17

Date: 19.03.2016

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **M/S Vrushabhadri Construction,** Bangalore.
Name of the work : Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.
Sample ID : Cement Mortar (Plastering)
Size of cubes : 50mmx50mmx50mm
Cross Sectional Area : 2500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2016	19.03.2016	0.762	136.5	54.60
3	20.02.2016	19.03.2016	0.795	135.6	54.24
3	20.02.2016	19.03.2016	0.781	134.8	53.92

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Job No.: SVCE/BBMP/VC/W.No.17/2016-17

Date: 02.03.2016

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/S Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.
Sample Identification : 10mm,12mm,16mm,20mm, 25mm, Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 02.03.2016

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
2	Fe 500	10	0.62	536	545	13.5
3	Fe 500	12	0.88	547	556	14
4	Fe 500	16	1.58	559	568	15
5	Fe 500	20	2.46	572	583	15.5

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Job No.: SVCE/BBMP/VC/W.No.17/2016-17

28.03.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/S Vrushabhadri Construction,** Bangalore.
Name of the work : Construction of Second floor office for ARO (Yeshwanthpura) at JP park swimming pool parking area in ward no.17, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.06.2016	28.03.2016	8.132	362.5	16.11
2	21.06.2016	28.03.2016	8.152	358.4	15.93
3	21.06.2016	28.03.2016	8.146	349.6	15.54

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